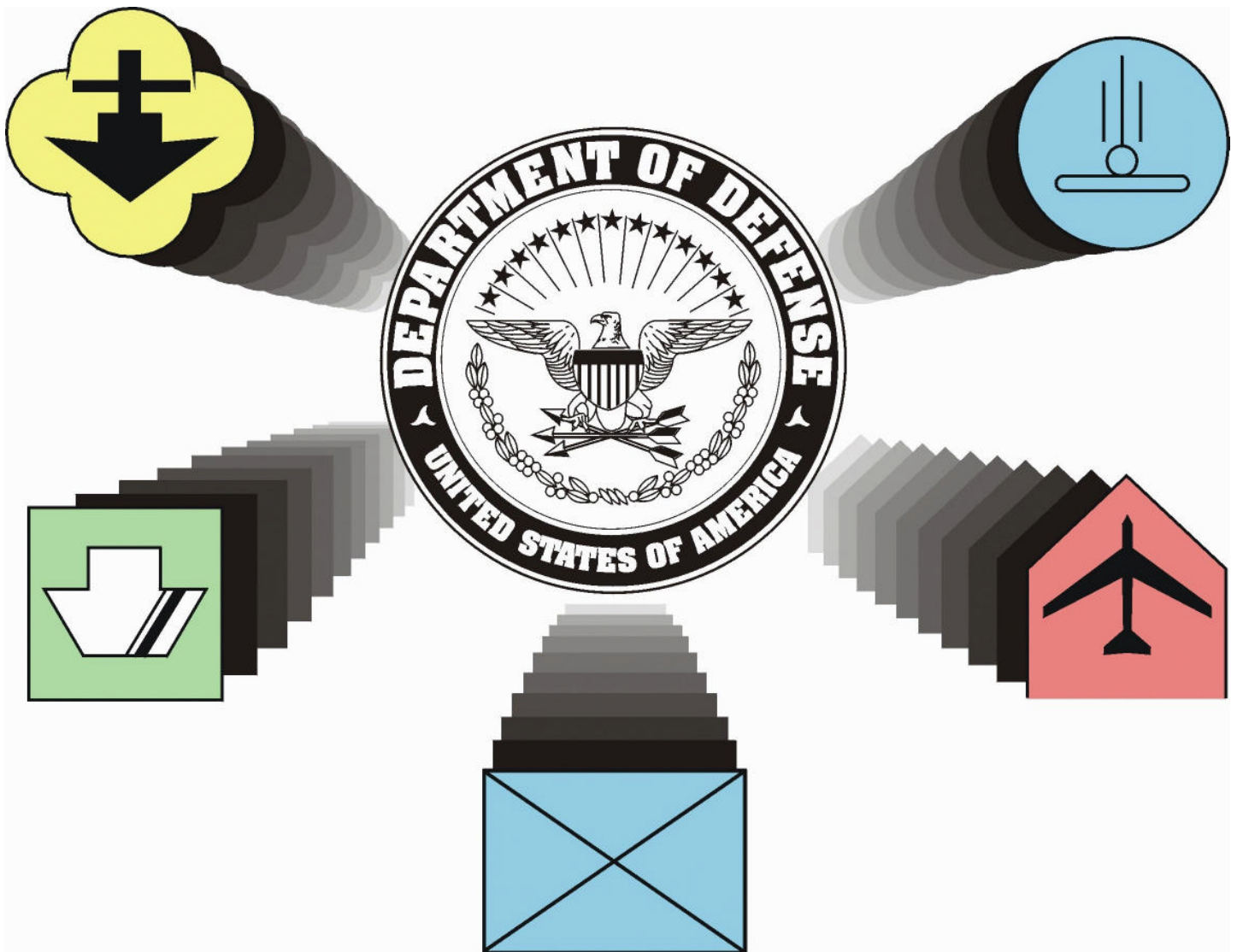


# Symbology Standards Management Committee

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Meeting Support Package  
May 6, 1999



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# SSMC Meeting Agenda

May 06, 1999 – 8:30 a.m.

*Logicon Enterprise Engineering Solutions  
1831 Wiehle Avenue  
Reston, Virginia*

## Welcome

- Opening Remarks from the Chair Ms. Anneliese Martin (JIEO)

## Old Business

- Approve Previous Meeting Minutes All
- Review Current Action Items JIEO
- Disposition of CP 98-04A JIEO
- Discuss Status of CP 98-05 All

## New Business

- Discuss/Vote on CP 99-01A All
- Discuss/Vote on CP 99-02 All
- Discussion of Change Management (CM)/Change Proposal Process All
- Potential CP for 4-Digit Year JIEO

## Wrap Up

- Assign New Action Items JIEO
- Set Date for Next SSMC Meeting JIEO
- Entertain Discussion Topics for Next SSMC Meeting JIEO

## Adjourn



DEFENSE INFORMATION SYSTEMS AGENCY  
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10701 PARKRIDGE BLVD.  
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IN REPLY  
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Center for Standards

March 2, 1999

**MEMORANDUM FOR DISTRIBUTION**

**SUBJECT:** Record of Technical Discussions, Symbology Standards Management Committee (SSMC) meeting, 3 February 1999

**1. INTRODUCTION**

The meeting was called to order at 0830 hours, 3 February 1999, by the Chair, Ms. Anneliese Martin, Information Standards Division, Center for Standards (CFS), Joint Interoperability and Engineering Organization (JIEO), Defense Information Systems Agency (DISA). The following voting member organizations were represented by the individuals listed:

Organization	Representative
Assistant Secretary of Defense for Command, Control, Communications, and Intelligence	
Chairman, Joint Chiefs of Staff	
Chief of Staff, U.S. Air Force	Mr. Richard Jolly
Chief of Staff, U.S. Army	LTC Mark Haines
Chief of Naval Operations	Mr. Bob Chamberlain
Commandant of the Marine Corps	Ms. Anne Keays
Commander in Chief, U.S. Atlantic Command	
Commander in Chief, U.S. European Command	
Commander in Chief, U.S. Central Command	
Commander in Chief, U.S. Pacific Command	
Commander in Chief, U.S. Southern Command	
Commander in Chief, U.S. Space Command	
Commander in Chief, U.S. Special Operations Command	
Commander in Chief, U.S. Strategic Command	
Commander in Chief, U.S. Transportation Command	
Department of Transportation, U.S. Coast Guard	
Director, Defense Intelligence Agency	
Director, National Imagery and Mapping Agency	Mr. Dan Gleason

The roster of attendees is provided in Enclosure 1.

## 2. APPROVAL OF PREVIOUS MEETING MINUTES

The Chair presented the 4/5 November 1998 meeting minutes and asked for recommended changes. No changes were offered, and the minutes were unanimously approved.

## OLD BUSINESS

## 3. ACTION ITEM REVIEW

- AI 97-29** Army will revise the definition and possibly rework the symbol for 2.X.2.1.1.3.2.6, "limited access area." *AI closed.*
- AI 98-18** JIEO will scour applicable STANAGs and update all the affiliation definitions accordingly. JIEO will then scrub the new definitions against Table I and related text sections. *Updated from MIL-STD-6016 definitions. AI closed.*
- AI 98-20** JIEO will revise and clarify the text descriptions of the new SIGINT-specific modifiers. *AI open.*
- AI 98-21** JIEO will research the applicability and currency of C4IFTW. *C4IFTW plays a significant role in GCCS – has not gone away. AI closed.*
- AI 98-22** JIEO will remove the arrowhead from the Offset Location Indicator in Figure 4 and incorporate it into the baseline. *Completed. AI closed.*
- AI 98-23** JIEO will develop a change proposal to update offset location indicator. *AI open.*
- AI 98-24** JIEO will develop a list of possible conflicts that MIL-STD-2525 symbology has with MC&G symbology using the results of the MIL97-10 action item. JIEO will then post these to the Symbology homepage in an appropriate place. *AI open.*
- AI 98-25** ASPO will develop a CP for the following classes of symbols: Fire Planning, Air Corridor, Fire Planning Radius, and METOC basic types. *AI open.*
- AI 98-26** JIEO will delete Row "X" in table IX on page 33 and incorporate it into the baseline. *Completed. AI closed.*
- AI 98-27**
- 1) JIEO will add a '3' in columns 'N' and 'B/C' on row 'N.'
  - 2) JIEO will move text modifier field 'N' in figure 11 to lower right hand corner of all three symbols.
  - 3) JIEO will move text modifier field 'N' in figure 12 NBC events to lower right-hand corner to match instructions in figure 11.
  - 4) JIEO will add text modifier field 'N' to generic instructions for symbol 2.X.3.4.2 on page 404.
  - 5) JIEO will add text modifier field 'N' to symbol 2.X.3.4.7.1.
  - 6) JIEO will add text modifier field 'N' to symbol 2.X.3.4.7.2.
- All actions completed. AI closed.*
- AI 98-28** Navy will research hierarchy in figure A-6 with regard to Land Attack Missile, symbol 1.X.2.2.1.4. Develop change proposal if required. *Delete*

*“Land” from “Surface/Land Launched Missile”, and Navy develop CP for addition of “Cruise Missile” vice “Land Attack Missile”. AI open.*

**AI 98-29** To align symbology with earlier decisions to use one cross bar to represent light, two to represent medium and three to represent heavy equipment,

- 1) JIEO will add a cross bar to the light air defense missile symbols 1.X.3.1.1.1.2.1 and 1.X.3.1.1.1.2.1.1;
- 2) JIEO will add a cross bar to the medium air defense missile symbol 1.X.3.1.1.1.2.2; and
- 3) JIEO will add a cross bar to the heavy air defense missile symbol 1.X.3.1.1.1.2.3, and will incorporate them into the baseline.

*All actions completed. AI closed.*

**AI 98-30** JIEO will make symbol 1.X.3.1.1.7.2.1 represent a single, rather than multi-, rocket launcher and incorporate it into the baseline. *Completed.*

*AI closed.*

**AI 98-31** JIEO will make symbol 1.X.3.1.1.7.2.2 represent a generic multi-rocket launcher and incorporate it into the baseline. *Completed. AI closed.*

**AI 98-32** ADD ‘D’ to symbol 1.X.3.1.1.8.8.1, Reconnaissance Marine Division, and incorporate it into the baseline. *Completed. AI closed.*

**AI 98-33** 1) JIEO will add a horizontal line to symbol 1.X.3.2.1.1.2  
2) JIEO will add a horizontal line to symbol 1.X.3.2.1.1.2.1  
3) JIEO will add a horizontal line to symbol 1.X.3.2.1.1.2.2  
4) JIEO will add a horizontal line to symbol 1.X.3.2.1.1.2.3, and incorporate them into the baseline.

*All actions completed. AI closed.*

**AI 98-34** JIEO will change the hierarchy for 1.X.3.2.2.3.4 to reflect that 1.X.3.2.2.3.4.1 and 1.X.3.2.2.3.4.2 are mine clearing vehicles, not mine laying vehicles, and incorporate it into the baseline.

- 1) Fix TABLE A-VI, page 64
- 2) Fix figure A-28, page 86
- 3) Fix TABLE A-XIII, page 212.

*All actions completed. AI closed.*

**AI 98-35** JIEO will correct duplicate symbols. Add ‘CSAR’ vice ‘H’ to SOF combat search and rescue symbol on page 250. Also display correct unknown representation for ‘Fixed Wing utility, Heavy,’ 1.X.6.1.1.3.3, page 249 and incorporate it into the baseline. *All actions completed. AI closed.*

**AI 98-36** JIEO will change ‘X’ (‘Other’) in TABLE B-III, to ‘O’ and incorporate into the baseline. *Completed. AI closed.*

**AI 98-37** 1) The Army will identify all tactical graphics requiring multiple points to define the path of a symbol;  
2) JIEO will incorporate (Action Item 98-49) wording for identified symbols, “additional points (2.1, 2.2, ..., 2.n) may be added along graphics centerline to define bends in graphic ...”; and

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- 3) JIEO will change anchor point three to indicate shaft dimension, and incorporate them into the baseline.

***AI open.***

- AI 98-38** JIEO will modify paragraph 5.5.1.2 to:  
“... In general, line (including boundary lines) and area graphics...as depicted in table VIII. There are certain tactical graphics such as counter attack which are drawn in the ‘present’ status with dashed lines” and incorporate into the baseline. ***Completed. AI closed.***
- AI 98-39** JIEO will change the orientation parameter on page 331 for tactical graphic 2.X.2.1.2.2. Orientation is to be determined by the order in which the points are entered. Incorporate this change into the baseline.  
***Completed. AI closed.***
- AI 98-40** JIEO will renumber the tips of the arrowhead anchor points on symbol 2.X.2.1.3.9 points 2 and 3 respectively vice 1 and 2 and incorporate it into the baseline. ***Completed. AI closed.***
- AI 98-41** Army/ASPO to provide input to JIEO for drawing instructions for Air Corridor. ***AI open.***
- AI 98-42** JIEO will redraw generic symbol 2.X.2.5.2.1.2 with an ‘A’ vice the airborne symbol for the generic drawing and incorporate it into the baseline. ***Completed. AI closed.***
- AI 98-43** JIEO will remove the enemy line depiction in the generic drawing instruction on page 361 for symbol 2.X.2.5.2.4 and incorporate it into the baseline. ***Completed. AI closed.***
- AI 98-44** JIEO will reduce the size of symbol 2.X.2.3.1.3.3.1, reorient its anchor point to the center point and incorporate this change into the baseline.  
***Completed for this and other symbols within the 2.X.3 set. AI closed.***
- AI 98-45** NIMA will propose a change to align the MIL-STD-2525 wreck symbol with the MC&G symbols for wrecks, adding new symbols where necessary (page 448, symbol 2.X.6.3.1.3). ***AI open.***
- AI 98-46** JIEO will cross check index prior to publishing. ***Completed. AI closed.***
- AI 98-47** JIEO will procure a DoD Standardization Program project number.  
***Number assigned: INST-0022. AI closed.***
- AI 98-48** JIEO will correct name in table header on page 480 and incorporate into the baseline. ***Completed. AI closed.***
- AI 98-49** JIEO will incorporate (Action Item 98-49) the following resolution comments: 1, 2, 3, 4, 6, 24, 26, 29, 31, 32, 39, 46, 47, 48, 49, 50, 51, 52, 60, 80, 85, 87, 88, 94, 107, 112, 117, 120, 121, 123, 124, 125, 127, 128, 129, 130, 131, 132, 133, and 137. ***All actions completed. AI closed.***

#### 4. CHANGE PROPOSALS

- MIL98-04** ADD NEW SYMBOL, SYSTEM RANGE FANS. *Change Proposal (CP) MIL98-04 was discussed, and issues regarding interoperability*

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*raised. The Army (PM FATDS) will lead discussions, coordinate changes, perform modifications, and resubmit as CP98-04A.*

**MIL98-05**     MULTIPLE UAV PLATFORM SYMBOLS. *Tabled pending Air Force review of Symbol Identification Codes for the entire Air Track.*

**MIL98-06**     CHANGE DESIGNATOR FOR SPECIAL OPERATIONS FORCES. *Approved.*

**MIL98-07**     COLOR BLUE WITH NEW CATEGORY NEUTRAL. *Disapproved.*

## **NEW BUSINESS**

### **5. NEW ACTION ITEMS**

No new Action Items were introduced.

### **6. NEW CHANGE PROPOSALS**

**MIL99-01**     ADD UNKNOWN ENVIRONMENT. *CP MIL99-01 was discussed and recommendations made for changing "Assumed Hostile" to "Suspect" and utilizing the existing Affiliation Code letters in conjunction with or in place of "U". The Navy (CNO) will revise/return for comment.*

### **7. SYMBOLOGY IMPLEMENTATION AND CHANGE PROPOSAL PROCEDURES**

Dr. Kathleen Fernandes, SPAWAR Systems Center, gave a presentation on the implementation of MIL-STD-2525 as a standard, and recommended some procedures for improving and streamlining the SSMC's Change Proposal process. Specific points covered were:

Questions concerning symbology implementation

- Options for implementing system-specific symbol sets - what does "2525 compliance" mean?
- Content and planned use of GRAPHREP
- Symbology availability in the DII COE
- GSD is one, but not the only, reference implementation of 2525
- Access to multiple symbol sets requires support for both symbol display and UI to allow configurability
- Questions asked regarding operational utility of 2525 - do we know it is as good as/better than current symbol sets?

Recommended ground rules for dealing with Change Proposals

- Focus on addressing *joint* symbology requirements (vice those of a single service/system)
- CPs identify new requirements; SSMC defines implementation consistent with hierarchy, design rules in MIL-STD



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- CPs address what should be in the MIL-STD, do not perform symbology CM for future GSD/COE releases
- Need to decide if/when CPs can be used to reopen issues previously addressed/resolved by SSMC/MCEB
- Service/agency reps perform initial "scrub" of CPs, ensure that originator understands SSMC CM process

## **8. HIERARCHY DISCUSSION**

Mr. Thom Beal, Logicon, presented four options for a future overhaul of the current hierarchy structure. The reason for this requirement is the predicted need for Units, Installations, and Equipment for all dimensions (ground, air, sea surface, sea subsurface, etc.). After a brief review of the options, he recommended that before the next full version of MIL-STD-2525 is released (the "C" version) the SSMC adopt Option 3 and revise the standard accordingly. Mr. Beal noted that whatever option is accepted, it will be disruptive to the hierarchy. The Chair concurred with this view, and tabled the issue until a later date.

## **WRAP UP**

## **9. SSMC MEETING ADJOURNED**

After agreeing to have an SSMC meeting on 6 May 1999 at Logicon, Reston, VA, the Chair adjourned the SSMC meeting at 1420 hours on 3 February 1999.



Distribution

Enclosures:

1. Roster of Attendees

Anneliese Martin  
Chair, Symbology Standards  
Management Committee

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# Distribution

February 3, 1999, SSMC Minutes

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## Attendee Roster

February 3, 1999, SSMC Minutes

Symbology Standards Management Committee Meeting  
February 3, 1999

Barnett, Donald	MAJ	CADD-CGSC
Beal, Thom	Mr.	Logicon/DISA/JIEO
Chamberlain, Robert	Mr.	NCTSI
Dowd, Steve	Mr.	AC2ISRC/C2FM
Doyle, John	Mr.	ASPO/GSD
Fernandes, Kathleen	Dr.	SSC SD
Gleason, Daniel	Mr.	NIMA
Haines, Mark	LTC	USDA/DAMO-SSP
Horten, Mona	Ms.	Logicon/NCTSI
Jolly, Richard	Mr.	AFCA/ITS
Keays, Ann	Ms.	MCCDC, Quantico
Large, Charles	Mr.	Logicon/DISA/JIEO
Martin, Anneliese	Ms.	DISA/JIEO
McConnell, John	Mr.	Logicon/DISA/JIEO
Morgan, Tom	Mr.	ASPO Support
Peyton, Buddy	Maj	MCCDC, Quantico
Ramos, John	Mr.	CSC-PM FATDS
Roth, Mike	Mr.	ASPO Support
Saphow, Henry	Mr.	PM FATDS
Smith, Donald	Mr.	PM, Soldier

## Action Item Listing

ACTION ITEM NUMBER	ACTION ITEM DESCRIPTION	STATUS	DATE ASSIGNED
AI 98 45	NIMA will propose a change to align the MIL-STD-2525 wreck symbol with the MC&G symbols for wrecks adding new symbols where necessary, (page 448, symbol 2.X.6.3.1.3)	open	11/05/98
AI 98 41	Army/ASPO will provide input to JIEO for drawing instructions for Air Corridor.	open	11/05/98
AI 98 37	1.Army will identify all tactical graphics requiring multiple points to define path of symbol. 2.JIEO will incorporate wording for identified symbols, "additional points (2.1, 2.2, ..., 2.n) may be added along graphics centerline to define bends in graphic. 3.JIEO will change anchor point three to indicate shaft dimension.	open	11/05/98
AI 98 28	Navy will research hierarchy in figure A-6 with regards to Land Attack Missile, 1.X.2.2.1.4. Develop change proposal if required.	open	11/05/98
AI 98 25	ASPO will develop a CP to classes of symbols fire planning, air corridor, fire Planning Radius, and METOC basic types.	open	11/05/98
AI 98 24	JIEO will develop a list of possible conflicts that MIL-STD-2525 symbology has with MC&G symbology using the results of the 97-10 action item. JIEO will then post these to the Symbology homepage in an appropriate place.	open	11/05/98
AI 98 23	JIEO will develop a change proposal to update offset location indicator.	open	11/05/98
AI 98 20	Army/ASPO will revise and clarify the text descriptions of the new SIGINT-specific modifiers.	open	06/04/98

**SYMBOLY CONFIGURATION MANAGEMENT  
CHANGE PROPOSAL FORM**

<b>CHANGE PROPOSAL NUMBER</b>		<b>MIL98-04A</b>	
<b>ORIGINATOR</b>	<b>SPONSOR</b>	<b>DATE RECEIVED</b>	<b>DATE OF ACTION</b>
<b>PM FATDS</b>	<b>ARMY</b>	<b>3 FEB 1999</b>	<b>25 MAR 1999</b>
<b>CHANGE PROPOSAL TITLE</b>			
ADD NEW SYMBOL, SYSTEM RANGE FANS			
<b>SUGGESTED CHANGE</b>			

The Fire Support community has an Urgent requirement to add a new symbol to MIL-STD-2525B.

1. The purpose of the Range Fan symbol is to graphically display Fire Support weapon and Target Acquisition systems effective ranges to commanders in the Common Operational Picture (COP)/Common Tactical Picture (CTP).
2. Recommend adding to hierarchy item 2.X.4, Fire Support, under the "Areas" hierarchy, 2.X.4.3, figure B-17, and table B-IV.

**Justification for Urgency:** Army Battle Command System (ABCS) is made up of six primary (MCS, AFATDS, CSSCS, AMDWS, ASAS and GCCS-A) and a number of extended systems. ABCS version 6.0/6.1 is a go-to-war software. The ABCS is required to be a level 6 DII COE compliant, which includes use of Graphical Situation Display (GSD). GSD with the MIL-STD-2525B capability will be available in DII COE version 4.0. It is anticipated that ABCS 6.0/6.1 will integrate DII COE 4.0. The major requirement for Fire Support is to provide ABCS targets and Range Fan graphical information, which support the commander's operational decisions. If MIL-STD-2525B is not implemented in DII COE 4.0 software release, then Fire Support will not be able to provide a critical decision making tool to commanders via the COP/CTP. ABCS 6.0 software development will be completed by Dec 99 in support of interoperability testing and the user's training requirements in order to meet First Digitized Division (FDD) fielding requirements.

**Overview:** Currently, the standard does not contain symbols depicting weapons and/or target acquisition systems Range Fans. The purpose of the Range Fan symbols is to graphically display to commanders and operators the operationally effective distances of fire support and target acquisition assets available. Incorporation into MIL-STD-2525B, which will be used in GSD, will allow the symbols to be transmitted/received by all battlefield systems. Range Fans have been designated a critical symbol required in the COP to be shared across the battlefield. The development of the COP/CTP is required of all ABCS participating in the First Digitized Division. AFATDS is the producer of Range Fans for the COP/CTP. AFATDS will retain this capability for fielding throughout the Army and USMC.

**Operational Description:** In general, a Range Fan is used to display the range (area coverage) of a weapon or target acquisition system. A minimum of four (4) data parameters (unit location, orientation, minimum and maximum range) is required to display a Range Fan. A minimum of six (6) data parameters (unit location, orientation, left and right limits (required to display a sector), minimum and maximum ranges) are required to display a sector Range Fan. Additional minimum and maximum ranges, and left and right limits may be entered as required. The minimum information required to interoperate with another system is defined below.

**IMPLEMENTATION:**

Description: **Fire Support, Area, Weapon/Target Acquisition System Range Fans, Circular**



**Parameters:**

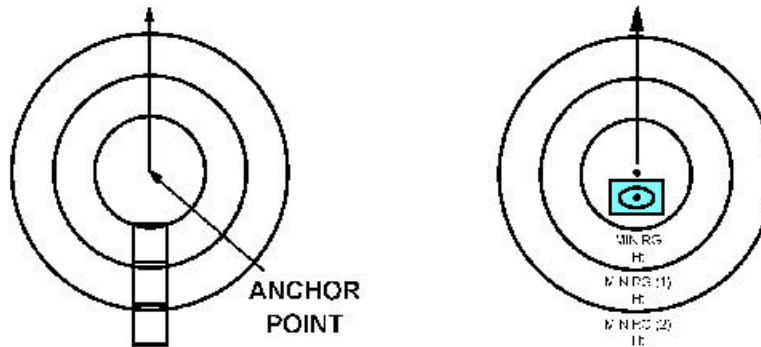
1. **Anchor Points.** This graphic requires one anchor point that defines an object at a dynamic grid location. This coordinate, which pinpoints the current physical location of a specific unit, weapon or acquisition system, may change with the movement of the object. The symbol for that object is located at the anchor point.
2. **Size/Shape.** Shapes are concentric circles. Size is defined by the minimum and maximum ranges (as many as required) measured from the anchor point.
3. **Orientation.** The center point is typically centered over the known location of a weapon or target acquisition system. The orientation of the Circular Range Fan is the direction of engagement. The orientation may change as the object moves or changes.

**Fixed/Dynamic:** Dynamic, to support requirements that the fan box be transferable between true and relative locations.

**Hierarchy:** 2.X.4.3.11.1

**Symbol ID:** G\*FPAXC

**Label:** Text boxes will be used to label the minimum and maximum ranges and height of the range fan.



**Description:** Fire Support, Area, Weapon/Target Acquisition System Range Fans, Sector

**Parameters:**

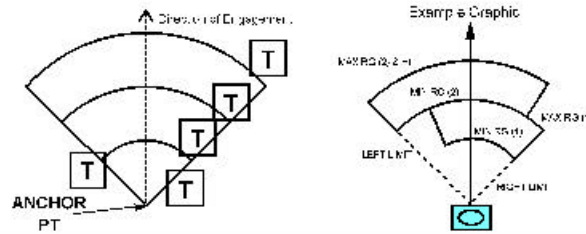
1. **Anchor Points.** This graphic requires one anchor point that defines an object at a dynamic grid location. This coordinate, which pinpoints the current physical location of a specific unit, weapon or acquisition system, may change with the movement of the object. The symbol for that object is located at the anchor point.
2. **Size/Shape.** Determined from the anchor point with a single azimuth that denotes Sector Center. The maximum left and right limits of the sector are measured from the sector centerline. Multiple ranges and/or maximum left and right limits of the sector, as well as height, may be entered, as required, to define the sector.
3. **Orientation.** The center point is typically centered over the known location of a weapon or target acquisition system. The orientation may change as the object moves or changes.

**Fixed/Dynamic:** Dynamic, to support requirements that the fan box be transferable between true and relative locations.

**Hierarchy:** 2.X.4.3.11.2

**Symbol ID:** G\*FPAXS

**Label:** Text boxes will be used to label the minimum and maximum ranges and maximum left and right sector limits and height.



### JIEO ANALYSIS

#### OVERVIEW:

The proposed CP fulfills a need expressed by the Army for a standard Range Fan Symbol.

The following changes must be made to the standard to incorporate the proposed changes:

1. Revise table B-III, C2 Symbology: Military Operations symbol ID codes, to include the necessary information for the System Range Fan symbol.
2. Revise figure B-17, Fire Support, to include the System Range Fan symbols.
3. Revise table B-IV, C2 Symbology: Military Operations set, to include a generic and example symbol for both 2.X.4.3.11.1 and 2.X.4.3.11.2.

#### POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:

The System Range Fan symbols do not conflict with any existing symbols within MIL-STD-2525B.

#### CONFORMANCE TO SYMBOL GUIDELINES:

The proposed System Range Fan symbols follows the rules concerning composition, construction, display, and transmission previously set forth in the standard.

#### ADEQUACY AND IMPACT ON OTHER PROGRAMS:

None known.

### C/S/A COMMENTS






The Navy did not concur with the SSMC majority vote to approve this Change Proposal.

### ACTION TAKEN

By a majority electronic vote, the SSMC approved this CP for addition to MIL-STD-2525B on 25 MAR 1999. It will be added to the MIL-STD-2525B either through a future change document or revision to the entire standard.

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<a href="#">February 3 meeting</a>	<a href="#">Meeting Support Package</a>	<a href="#">Meeting Minutes</a>
<a href="#">1998 CP LIST</a>	<a href="#">Symbology Home Page</a>	<a href="#">CFS Home Page</a>

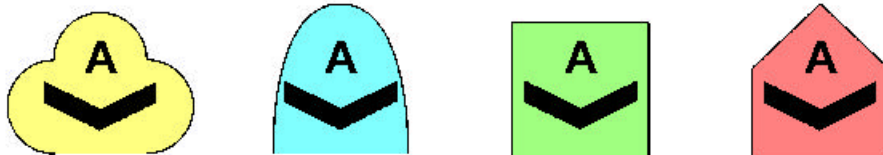
<b>SYMBOLY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM</b>			
<b>CHANGE PROPOSAL NUMBER</b>		<b>MIL98-05</b>	
<b>ORIGINATOR</b>	<b>SPONSOR</b>	<b>DATE RECEIVED</b>	<b>DATE OF ACTION</b>
<b>Turner, David A. Capt. ACC/DRU (Mr. Steve Dowd)</b>	<b>USAF</b>	<b>1 DEC 1998</b>	<b>-</b>
<b>CHANGE PROPOSAL TITLE</b>			
<b>MULTIPLE UAV PLATFORM SYMBOLS</b>			
<b>SUGGESTED CHANGE</b>			
<p>The symbols that represent UAVs, drones, and RPVs should differentiate between platforms. Change the description of 1.X.2.1.1.16 to UAV.</p> <p>Knowledge of the specific mission/function of a UAV is critical for C2 decision-makers in apportioning the correct resource on the right target equals bombs on targets.</p> <div style="text-align: center; margin: 20px 0;"> <p>Existing Symbol for Drone (RPV/UAV). Number 1.X.2.1.1.16. Maintain as generic class symbol.</p>  </div> <div style="text-align: center; margin: 10px 0;"> <p>Recommended symbol for UAV (Attack). Number 1.X.2.1.1.16.1</p>  </div> <div style="text-align: center; margin: 10px 0;"> <p>Recommended symbol for UAV (ISR). Number 1.X.2.1.1.16.2</p>  </div> <div style="text-align: center; margin: 10px 0;"> <p>Recommended symbol for UAV (Comm). Number 1.X.2.1.1.16.3</p>  </div> <div style="text-align: center; margin: 10px 0;"> <p>Recommended symbol for UAV (Drone). Number 1.X.2.1.1.16.4</p>  </div>			
<b>JIEO ANALYSIS</b>			
<p><b>OVERVIEW:</b></p> <p>CP MIL 98-05 proposed the addition of several new designations for the Drone (RPV/UAV) symbol. The addition of these symbol designations highlights the need for an examination of all possible missions/functions that may be performed by RPV/UAVs. Examining the four proposed designations, "A" (for Attack) is a proper addition and corresponds to existing symbology configurations. The second addition, "R" (Reconnaissance), is also a proper addition, though it does have other more specific options available to it. The designator "C" (intended to denote Communications) should be changed to "Y" (Communications (C3I)), in order to correspond to the designator used by other symbols within the Air Set. The final designator, "D", which is used in other symbols to describe a different mission/function (Airborne Command Post) should be dropped. As termed in the suggested change, a "drone" is the same as the existing generic symbol and the description given for it in table D-I for 1.X.2.1.1.16. Additionally, the term "platform" seems to describe the mission or function of the Drone, not the actual vehicle itself. The second sentence of the Suggested Change indicates a desire to change the symbol definition from "Drone" to "UAV". Recommend maintaining the definition as-is to avoid confusion, since the meanings of Drone, UAV, and RPV are nearly identical. Recommend that the below listed hierarchy,</p>			

descriptions, and symbol ID codes be considered for inclusion in this change.

HIERARCHY	DESCRIPTION	SYMBOL ID
1.X.2.1.1.16.1	ATTACK	A
1.X.2.1.1.16.2	BOMBER	B
1.X.2.1.1.16.3	CARGO	C
1.X.2.1.1.16.4	AIRBORNE COMMAND POST	D
1.X.2.1.1.16.5	FIGHTER	F
1.X.2.1.1.16.6	SEARCH & RESCUE (CSAR)	H
1.X.2.1.1.16.7	ELECTRONIC COUNTERMEASURES (JAMMER)	J
1.X.2.1.1.16.8	TANKER	K
1.X.2.1.1.16.9	VSTOL	L
1.X.2.1.1.16.10	SPECIAL OPERATIONS FORCES (SOF)	M
1.X.2.1.1.16.11	MINE COUNTERMEASURES	MCM
1.X.2.1.1.16.12	ANTI-SURFACE WARFARE (ASUW)	N
1.X.2.1.1.16.13	PATROL	P
1.X.2.1.1.16.14	RECONNAISSANCE	R
1.X.2.1.1.16.14.1	AIRBORNE EARLY WARNING (AEW)	W
1.X.2.1.1.16.14.2	ELECTRONIC SURVEILLANCE MEASURES	Z
1.X.2.1.1.16.14.3	PHOTOGRAPHIC	X
1.X.2.1.1.16.15	ANTI-SUBMARINE WARFARE (ASW)	S
1.X.2.1.1.16.16	TRAINER	T
1.X.2.1.1.16.17	UTILITY	U
1.X.2.1.1.16.18	COMMUNICATIONS (C3I)	Y
1.X.2.1.1.16.19	MEDEVAC	+

The following changes must be made to the standard to incorporate the proposed changes:

1. Revise Appendix A, Table A-V, C2 Symbology: UEI symbol ID codes - air to include the necessary information for the additional Drone (RPV/UAV) symbols.
2. Revise Appendix A, Figure A-4, Air Track (Military fixed wing) to include the necessary information for all Drone (RPV/UAV) missions/functions.
3. Revise Appendix A, Table A-XII, C2 Symbology: UEI set - air to include four versions for all additional Drone (RPV/UAV) missions/functions to depict the unknown, friend, neutral, and enemy affiliations.



#### POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:

Following the above listed methodology avoids any conflicts with existing symbology.

#### CONFORMANCE TO SYMBOL GUIDELINES:

The addition of symbol designators to the existing RPV/UAV symbol conforms completely with the rules set forth regarding the composition, construction, and display of tactical symbols. The new symbol ID codes and hierarchy numbers also conform to the rules concerning their generation.

**ADEQUACY AND IMPACT ON OTHER PROGRAMS:**






None Known.

**C/S/A COMMENTS**

**ACTION TAKEN**

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<a href="#">February 3 meeting</a>	<a href="#">Meeting Support Package</a>	<a href="#">Meeting Minutes</a>
<a href="#">1998 CP LIST</a>	<a href="#">Symbology Home Page</a>	<a href="#">CFS Home Page</a>

SYMBOLGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM			
CHANGE PROPOSAL NUMBER		MIL99-01A	
ORIGINATOR	SPONSOR	DATE RECEIVED	DATE OF ACTION
NCTSI	NAVY	March 12, 1999	-
CHANGE PROPOSAL TITLE			
ADD UNKNOWN ENVIRONMENT			
SUGGESTED CHANGE			
<p>The ELINT community and the Operational Fleet users have a requirement to add new symbols to Table 1 of MIL-STD-2525B that enhance identification of tracks with an Unknown battle dimension. These tracks will contain ELINT data which provides an affiliation (Threat ID) based on the Electronic Order of Battle.</p> <p>1. ELINT collectors may be unable to discern battle dimension from the emitter and may need the unknown environment category. The following examples pertain:</p> <p>-- The Front Door Fire Control Radar is found both on Echo Class Submarines and Kiev Class Cruisers.</p> <p>-- The Fan Song SA-2 Radar is found both on Kirov Class Destroyers and on Land Launchers</p> <p>-- The Don 2 and Don K are found on various surface and subsurface platforms</p> <p>-- The SPS-64 is found on various surface and subsurface platforms</p> <p>-- The LN-66 is found on multiple surface and subsurface platforms</p> <p>2. ELINT/COMMINT collectors may be unable to discern battle dimension from the content of the message/signal intercepted. However, the Naval Order of Battle provides affiliation based on ELINT parameters. The affiliation (or threat) should not be denied to the operator if available via message traffic or signal exploitation.</p>			
<div style="text-align: center;"> <span style="font-size: 2em; font-weight: bold;">F</span> <span style="font-size: 2em; font-weight: bold;">N</span> <span style="font-size: 2em; font-weight: bold;">H</span> <span style="font-size: 2em; font-weight: bold;">F</span> <span style="font-size: 2em; font-weight: bold;">H</span> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">               Unknown, Assumed Friendly           </div> <div style="text-align: center;">               Unknown, Neutral           </div> <div style="text-align: center;">               Unknown, Hostile           </div> <div style="text-align: center;">               Unknown, Friendly           </div> <div style="text-align: center;">               Suspect           </div> </div>			
<b>JIEO ANALYSIS</b>			

**OVERVIEW:**

This Change Proposal creates additional symbol types for those tracks having a known affiliation but an unknown battle dimension (KNOWN/UNKNOWN), with their affiliation most likely identified through electronic tracking of the object's signals. These new symbols are variants to the already existing UNKNOWN/UNKNOWN quatrefoil, and include symbol modifiers in field E for neutral (N), hostile (H), and friendly (F) tracks. If the symbol's affiliation is uncertain, a question mark is centered in the quatrefoil, resulting in a suspect (assumed hostile) symbol when it has an "H" in field E, and an assumed friendly symbol when it contains an "F". The fill for the frame is the same color as for other friendly (Cyan), neutral (Green), and enemy (Red) symbols.

The following changes must be made to the standard to incorporate the proposed changes:

1. Revise Table I, Frame shapes depicting affiliations and battle dimensions, to include each new symbol variant shown above.
2. Revise Table A-X, Warrior icon set - unknown, to include symbols for each variant and their unique symbol identification codes. Symbol IDs would be: FRIEND/UNKNOWN = SFZP-----; NEUTRAL/UNKNOWN = SNZP-----; HOSTILE/UNKNOWN = SHZP-----; ASSUMED FRIEND/UNKNOWN = SAZP-----; and SUSPECT/UNKNOWN = SSZP-----.
3. Add text description to paragraph 5.3.1.1 after "...and a diamond frame to denote hostile affiliation." It will read: "The letter 'F' in field E of an "unknown" frame identifies the symbol as friendly, an 'N' as neutral, and an 'H' as hostile. When combined with a question mark centered in the unknown frame, an 'F' indicates assumed friend, and an 'H' indicates a suspect track."

**POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:**

These known affiliation/unknown battle dimension symbols do not conflict with any existing symbols within MIL-STD-2525B.

**CONFORMANCE TO SYMBOL GUIDELINES:**

The proposed symbols are a modification to the rules concerning the composition, construction, and display previously set forth in the standard. Prior to this, the quatrefoil was only used to depict tracks with an unknown affiliation.

**ADEQUACY AND IMPACT ON OTHER PROGRAMS:**

None known.

**C/S/A COMMENTS****NAVY COMMENTS:**

The proposed symbols are consistent with rules concerning composition, construction, and display set forth in the standard.

**ACTION TAKEN**

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SYMBOLGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM			
CHANGE PROPOSAL NUMBER		MIL99-02	
ORIGINATOR	SPONSOR	DATE RECEIVED	DATE OF ACTION
NCTSI	NAVY	March 12,1999	-
CHANGE PROPOSAL TITLE			
HIERARCHY NUMBERS 1.X.2.2.1.1 AND 1.X.2.2.1.4			
SUGGESTED CHANGE			
<p>In MIL-STD-2525B, Figure A-6 Air Track (Missile In Flight), page 77:</p> <p>1. Change title for hierarchy number 1.X.2.2.1.1 from "SURFACE/LAND LAUNCHED MISSILE" to "SURFACE LAUNCHED MISSILE". Deleting "LAND" from the title will remove ambiguity between sea and land launched missiles.</p> <p>2. Change title for hierarchy number 1.X.2.2.1.4 from "LAND ATTACK MISSILE" to "CRUISE MISSILE". This change is for clarification that will provide a greater level of granularity.</p> <p>Proposed changes to hierarchy titles will be more consistent with MIL-STD-2525B. The proposed changes will also affect Tables A-V (page 54) and A-XII (pages 108-109).</p>			
JIEO ANALYSIS			
<p>OVERVIEW: The intent of this Change Proposal is to align two symbol names within the Air Track (Missile in Flight) with the actual environment they operate in and operational use they follow.</p> <p>POTENTIAL CONFLICTS WITH EXISTING SYMBOLGY: The changes to the symbol names do not cause any conflicts with other symbols within MIL-STD-2525B.</p> <p>CONFORMANCE TO SYMBOL GUIDELINES: The proposed changes do not affect the composition of the symbols regarding their composition, construction, display or transmission as they are set forth in the standard.</p> <p>ADEQUACY AND IMPACT ON OTHER PROGRAMS: None known.</p>			
C/S/A COMMENTS			
ACTION TAKEN			
E-mail <a href="mailto:martina@ncr.disa.mil">martina@ncr.disa.mil</a>			



CM Plan Discussion Presentation  
(To Added To Final Document)

# Symbology Standards Management Committee (SSMC) Members

\* Primary  
Representative

\*\* Alternate  
Representative.

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